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Vibrational Spectroscopic Database on Acetylene,

$\tilde{X}^1\Sigma_g^+$ ($^{12}\text{C}_2\text{H}_2$, $^{12}\text{C}_2\text{D}_2$, and $^{13}\text{C}_2\text{H}_2$).....921

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Information on the vibrational energy state in acetylene ($^{12}\text{C}_2\text{H}_2$, $^{12}\text{C}_2\text{D}_2$, and $^{13}\text{C}_2\text{H}_2$) is gathered: spectroscopic constants (vibrational frequencies and anharmonicities, vibration-rotation interaction parameters); observed vibrational energies and predicted principal rotational constants for states of $^{12}\text{C}_2\text{H}_2$, $^{12}\text{C}_2\text{D}_2$, and $^{13}\text{C}_2\text{H}_2$ up to 15000, 10000, and 12000 cm^{-1} , respectively.